,	Application No.	Applicant(s)
Notice of Allowability	10/553,296	SHIMA, NAOKI
	Examiner	Art Unit
	Renata McCloud	2837
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not included
1. This communication is responsive to 10/14/05.		
2. ☑ The allowed claim(s) is/are <u>1-4</u> .		
<ol> <li>Acknowledgment is made of a claim for foreign priority un</li> <li>a)                All b)</li></ol>	been received.  been received in Application No cuments have been received in this r	national stage application from the
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.  A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAMINER's s reason(s) why the oath or declarat	S AMENDMENT or NOTICE OF ion is deficient.
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") must</li> <li>(a) including changes required by the Notice of Draftsperso</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Paper No./Mail Date</li> </ol>	on's Patent Drawing Review ( PTO-9	,
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	34(c)) should be written on the drawing the header according to 37 CFR 1.121(d	gs in the front (not the back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F</li> </ol>	it of BIOLOGICAL MATERIAL m	ust be submitted. Note the
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal Pa	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview Summary ( Paper No./Mail Date	
3. \( \text{Information Disclosure Statements (PTO/SB/08),} \)	7. Examiner's Amendm	
Paper No./Mail Date $5/9/07$ ( $10/05$ )  4. $\square$ Examiner's Comment Regarding Requirement for Deposit of Biological Material		of Reasons for Allowance  NOONOVAN NOONOVAN PATENTEXAMINER
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Art Unit: 2837

## **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 1-4 are allowed. The following is an examiner's statement of reasons for allowance:

Claims 1,3: the prior art fails to teach or make obvious: A motor power line break detection method of an AC servo driver comprising: a current detector; and a torque controller, the method comprising the steps of: extracting a torque current component from a three-phase AC detected by the current detector, comparing a torque command with the torque current component, combined with: recognizing that a motor power line is broken, if the difference between the torque command and the torque current component exceeds a setup value.

Claims 2, 4: the prior art fails to teach or make obvious a motor power line break detection method of an AC servo driver comprising: a current detector; and a torque controller, the method comprising the steps of: applying a three-phase AC voltage so as to allow a magnetizing current not generating a torque in a motor to flow, detecting the consequent current flowing into the motor by the current detector, extracting a magnetizing current component, comparing the magnetizing current with the commanded magnetizing current, combined with: recognizing that a motor power line is broken, if the difference between the magnetizing current and the magnetizing current component exceeds a setup value.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Renata McCloud whose telephone number is (571) 272-2069. The examiner can normally be reached on Mon.- Fri. from 5:30 am - 2pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lincoln Donovan can be reached on (571) 272-2800 ext. 37. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Renata McCloud Examiner Art Unit 2837

rdm